

**Marie Curie RTN "BIMORE"**  
**PUBLICATION LIST**

*Papers in peer-reviewed international journals*

**2009**

L. Luer, S. Hoseinkhani, D. Polli, J. Crochet, T. Hertel, G. Lanzani, "Exciton size and mobility in (6,5) carbon nanotubes", *Nature Physics* 5, 54-58 (2009)

B. Skwara, W. Bartkowiak and D. L. Silva, "On the basis set superposition error in supermolecular calculations of interaction-induced electric properties", *Theor. Chem. Accounts* 122, 127-136 (2009)

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E. Olejnik, C. Herzog-Ronen, Y. Eichen, E. Ehrenfreund, "Recombination kinetics of polarons in ? lms of alkylator-sensing co-polymers", *Synthetic Metals* (accepted) (2009)

L. Luer, C. Gadermaier, J. Crochet, T. Hertel, D. Brida, G. Lanzani, "Coherent Phonon Dynamics in Semiconducting Carbon Nanotubes: A Quantitative Study of Electron-Phonon Coupling", *Phys. Rev. Lett.* 102, 127401 (2009)

**2008**

J. Mysliwiec, A. Kochalska, A. Miniewicz, "Biopolymer-based material used in optical image correlation", *Applied Optics Vol. 47, No. 11,10* (2008)

I. Kratochvilová, K. Král, M. Buncek, A. Višková, S. Nešpurek, T. Todorciuc, A. Kochalska, M. Weiter, B. Schneider, "Conductivity of natural and modified DNA measured by scanning tunneling microscopy. The effect of sequence, charge and stacking ", *Biophys. Chemistry doi:10.1016/j.bpc.2008.08.005* (2008)

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J. Cabanillas-Gonzalez, C. Sciascia, G. Lanzani, S. Toffanin, R. Capelli, M. C. Ramon, M. Muccini, J. Gierschner, T.-Y. Hwu, and K.-T. Wong, "Molecular Packing Effects on the Optical Spectra and Triplet Dynamics in Oligo?uorene Films ", *J. Phys. Chem. B*, 112, 11605–11609 (2008)

I. Kratochvilova, S. Nespurek, J. Sebera, S. Zalis, M. Pavelka, G. Wang, J. Sworakowski, "New organic FET-like photoactive device, experiments and DFT modeling ", *Eur. Phys. J. E* 25, 299–307 (2008)

S. Nespurek, J. Pospisil, I. Kratochvilova, J. Sworakowski, "Polymeric Composites Based on

Polysilanes for Plastic Electronics ", *Mol. Cryst. Liq. Cryst.*, Vol. 484, pp. 265 (2008)

F. Pauly, J.K. Viljas, J.C. Cuevas, and Gerd Schön, "Density-functional study of tilt-angle and temperature-dependent conductance in biphenyl dithiol single-molecule junctions ", *Phys. Rev. B* 77, 155312 (2008)

J.K. Viljas, F. Pauly and J.C. Cuevas, "Modeling elastic and photoassisted transport in organic molecular wires: Length-dependence and current-voltage characteristics", *Phys. Rev. B* 77, 155119 (2008)

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T. Benincori, M. Capaccio, F. De Angelis, L. Falciola, M. Muccini, P. Mussini, A. Ponti, S. Toffanin, P. Traldi, F. Sannicolò, "Spider-like oligothiophenes", *Chem. Eur. J.* 2008, 14, 459 – 471 (2007)